CONTENTS

VOLUME 1

Session 1 Health and regulatory issues: Concentrate management

- 1 Emerging legal issues in siting desalination facilities in California John Ossiff
- 37 A research and demonstration project permit under the new California groundwater recharge regulations Mike Wehner

Session 2 Seawater desalination

- 55 Seawater desalting for Southern California: Technical and economic considerations Gordon Hess, O.J. Morin and W.V. Carrigan
- 69 Large scale seawater distillation for Southern California R. Philip Hammond, David M. Eissenberg, Dieter K. Emmerman, John E. Jones, Jr. and Hugo H. Sephton
- 85 Developing and financing new water facilities: Alternatives for desalination and reclamation plants Nancy C. Smith
- 97 The use of vapor compression distillation for recycling gray water as an early application in the antarctic planetary analog
 B. Tleimat, M. Tleimat, M.A. Friedman, T.E. Styczynski and S. Schwartzkopf
- 109 Desalination cost savings of Vari-ROTM pumping technology Willard D. Childs and Ali F. Dabiri
- 137 Desalination plant integration with cogeneration systems for EOR/commercial/industrial applications Sameer Tadros

Session 3 Brackish water desalination

- 151 Desalting and groundwater management in the San Joaquin Valley, California Brian E. Smith
- 175 Financing groundwater desalination in Southern California Andrew Sienkiewich
- 181 Virginia's first municipal reverse osmosis facility Mark A. Thompson
- 193 Nine years of reverse osmosis operation at Englewood Howard W. Harlow, Mike Ray and Roger Quick
- 229 Desalting oil field by-product water John W. Lewis, Christine M. Ferrara and Ian C. Watson
- 249 Case study: Marin County, Florida. A utility's experience developing a new reverse osmosis treatment system Glen A. Miller and Robert Pontek

Session 4 Innovative case histories

- 269 Use of aquifer storage and recovery technology to improve membrane water treatment plant efficiency, Collier County, Florida Thomas M. Missimer, Charles W. Walker and Fred Bloetscher
- 281 Progressive coastal community implements both desalination and reuse in a omprehensive water resource program Douglas C. Whitney and John R. Ten Eyck
- 301 Author Index

VOLUME 2

Session 5 Water quality improvement

- 3 Selection, design and procurement of a demineralization system for a surface water treatment plant James C. Lozier, Gary Smith, Jerry W. Chapman and David E.Gattis
- 33 Yuma desalting plant membrane degradation during test opereations Anton C.F. Ammerlaan, John C. Franklin and Charles D. Moody

Session 6 New membrane technology

53 Slow sand/nanofiltration treatment for secondary treated wastewater C. Brent Cluff

Session 7 Membrane biofouling

- 71 A screening study of 12 biocides for potential use with cellulose acetate reverse osmopsis membranes Lisa H. Rowley
- 85 Biofouling prevention in RO polymeric membrane systems Mohamad Amin Saad

Session 8 IDA international desalination

- 109 EDR- Water treatment- Desalination on the praries D. Heshka
- 123 Baja California desalination project feasibility study report. Large scale dual purpose hybrid desalination plant David C. Nerell, Jeff A. Statton and Gunars Borsteins
- 145 Considerations in assessing for rehabilitation of damaged 20 mgd Shuwaikh 'D' plants Kuwait Bruce Watson
- 161 Tourism development and desalination systems: Comparative analysis of systems' suitability for coastal areas of the Red Sea and Gulf of Aqaba, Egypt Samir El-Sadek and Badr Mabrouk
- 179 The use of a qualitative method of control for some process parameters of distillation desalting plants Vladimir V. Barinov, Valentin L. Podbereznji, Isaak D. Mogilner and Victor F. Barinov

Volume 2 continued

Session 9 Water reclamation and reuse

- 189 How to promote water reclsamation and reuse through the California water rights system Michele A. Staples
- 201 City of San Diego potable reuse of reclaimed water: Final results Ken Thompson, Robert C. Cooper, Adam W. Olivieri, Don Eisenberg, Lori Pettegrew and Richard E. Danielson
- 215 Satellite wastewater reclamation plants: How to get what you bargain for Steven X. McHaney
- 225 Future reclaimed water use in the northeast San Fernando Valley Lisa A. Seach, William T. Van Wagoner and Julie M. Spacht

Session 10 Reclaimed water desalination

- 243 Using reclaimed water for shallow aquifer recharge Todd M. Fuqua, Paul T. Bowen and Roberto S. Ortiz
- 253 Remediation of groundwater contaminated by olive processing waste Christopher J. Martin

Session 11 Comparative economics

- 267 Power and water co-production feasibility study of Florida power and light power plants Malcolm P. LaBar, Robert W. Schleicher Jr., George Loh and Arden Walters
- 279 Potable water desalination in the U.S. Capital costs, operating costs and water selling prices Wendy Leitner

Poster Presentations

- 289 The hydraulic turbochargerTM for interstage feed pressure boosting. Impact on membrane performance Eli Oklejas Jr.
- 301 Salt-gradient solar ponds from concentrated subsurface agricultural drainage waters of the San Joaquin Valley, California Desmond W.J. Hayes and Jo Anne L. Kipps
- 311 The hydraulic turbochargerTM for reverse osmosis energy recovery. Extended testing on a seawater desalination system M. Silbernagel, T. Kuepper and E. Oklejas
- 321 A proposal to organize membrane treatment capital costs John E. Potts
- 331 The effect of the use of reclaimed water and high pressure effluent on plant operations at Hyperion treatment plant Kook K. Dean
- 341 Recharging a potable water supply aquifer with reclaimed wastewater in Cambria, California Jill A. Townley, Steve Swanback and Dave Andres
- 355 Cogeneration desalination with reverse osmosis: A means of augmenting water supplies in Southern California Ismat Kamal
- 371 The water factory Zeev Zimmerman
- 381 Author Index